

PTO-1449, REPRODUCED

ATTORNEY DOCKET NO.  
3033.1002-001

APPLICATION NO.  
09/909,122

INFORMATION DISCLOSURE  
IN AN APPLICATION

October 29, 2001 DEC 07 2001

(Use several sheets if necessary)

APPLICANT  
Darrell H. Carney et al.

FILING DATE  
July 19, 2001

GROUP  
Not assigned

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR3	Crowther, R.S., et al., "Thrombin Peptide TP508 Significantly Accelerates Repair of Fresh Fractures," Distributed at Texas Mineralized Tissue Society, Austin, Texas. August 1998.
AS3	Simmons, D.J., et al., "Acceleration of Rat Femoral Fracture Healing by a Synthetic Thrombin Peptide," Calcium Metabolism: Comparative Endocrinology. Proc Satellite Meeting, San Francisco, CA. Nov. 30, 1998. (Eds. C Dacke, J Danks, G Flik and C Gay). BioScientifica Ltd. Bradley Stoke, Bristol, UK. 1999.
EXAMINER	DATE CONSIDERED

paper NO: 3

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.  
3033.1002-001

APPLICATION NO.  
09/909,122

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

October 29, 2001

(Use several sheets if necessary)

APPLICANT

Darrell H. Carney et al.

FILING DATE

July 19, 2001

GROUP

Not assigned

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR2	Kirker-Head, C.A., et al., "Healing Bone Using Recombinant Human Bone Morphogenetic Protein 2 and Copolymer," Clin. Orth. & Related Res. 349:205-217 (1998).
AS2	Kirker-Head, C.A., et al., "Long-Term Healing of Bone Using Recombinant Human Bone Morphogenetic Protein 2," Clinical Orth. 222-230 (1995).
AT2	Carney, D.H., "Postclotting Cellular Effects of Thrombin Mediated by Interaction With High-Affinity Thrombin Receptors," in Thrombin: Structure and Function, ed. Lawrence J. Berliner. Plenum Press, New York, 351-396, 1992.
AU2	Stiernberg, J., et al., "The Role of Thrombin and Thrombin Receptor Activating Peptide (TRAP-508) in Initiation of Tissue Repair," Thrombosis & Haemostasis 70(1):158-162 (1995).
AV2	Carney, D.H., et al., "Enhancement of Incisional Wound Healing and Neovascularization in Normal Rats by Thrombin and Synthetic Thrombin Receptor-Activating Peptides," J. Clin. Invest. 89:1469-1477 (1992).
AW2	Carney, D.H., et al., "Role of High-Affinity Thrombin Receptors in Postclotting Cellular Effects of Thrombin," Seminars in Thrombosis and Hemostasis 18(1):91-102 (1992).
AX2	Stiernberg, J., et al., "Acceleration of Full-Thickness Wound Healing in Normal Rats by the Synthetic Thrombin Peptide, TP508," Wound Repair and Regeneration 8(3):204-215 (2000).
AY2	Glenn, K.C., et al., "Synthetic Peptides Bind to High-Affinity Thrombin Receptors and Modulate Thrombin Mitogenesis," Peptide Res. 1(2):65-73 (1998).
AZ2	Sower, L.E., et al., "Thrombin Peptide, TP508, Induces Differential Gene Expression in Fibroblasts Through a Nonproteolytic Activation Pathway," Exp. Cell Res. 247:422-431 (1999).

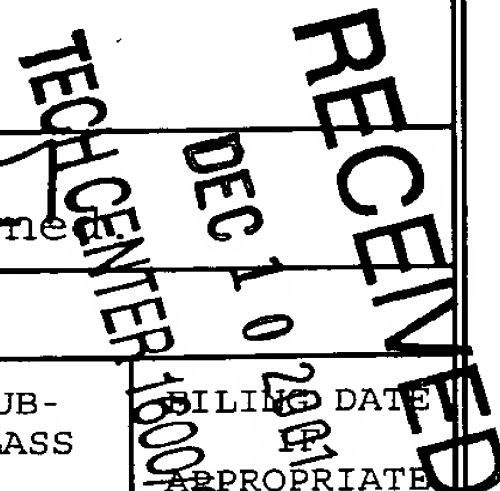
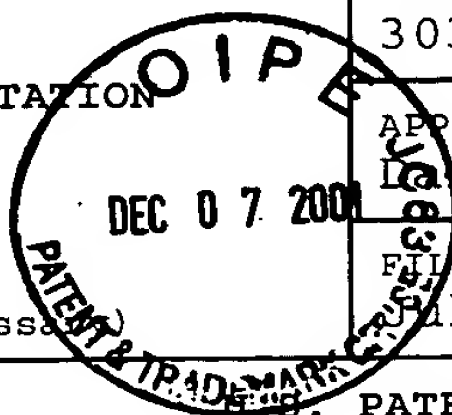
EXAMINER

DATE CONSIDERED

6/25/03

PAPER NO. 3

PTO-144 <del>REPRODUCED</del>		ATTORNEY DOCKET NO. 3033.1002-001		APPLICATION NO. 09/909,122	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION  October 29, 2001  (Use several sheets if necessary)				APPLICANT Darrell H. Carney et al.  FILING DATE July 19, 2001  GROUP Not assigned	
PATENT DOCUMENTS					
EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS
AA	5,352,664	10/04/94	Carney et al.	514	13
AB	5,500,412	03/19/96	Carney et al.	514	13
FOREIGN PATENT DOCUMENTS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS
AL					
AM					
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
AR	Alden, T.D., et al., "The Use of Bone Morphogenetic Protein Gene Therapy in Craniofacial Bone Repair," <i>J. of Craniofacial Surgery</i> 11(1):24-30 (2000).				
AS	Lind, M., et al., "Osteogenic Protein 1 Device Stimulates Bone Healing to Hydroxyapatite-Coated and Titanium Implants," <i>J. of Arthroplasty</i> 15(3):339-346 (2000).				
AT	Lee, Y.M., et al., "The Bone Regenerative Effect of Platelet-Derived Growth Factor-BB Delivered with a Chitosan/Tricalcium Phosphate Sponge Carrier," <i>J. of Periodontology</i> 71(3): 418-424 (2000).				
AU	Brager, M.A., et al., "Osteogenic Growth Peptide Normally Stimulated by Blood Loss and Marrow Ablation has Local and Systemic Effects on Fracture Healing in Rats," <i>J. of Orthopaedic Res.</i> 18(1):133-139 (2000).				
AV	Hong, L, et al., "Bone Regeneration at Rabbit Skull Defects Treated with Transforming Growth Factor- $\beta$ 1 Incorporated into Hydrogels with Different Levels of Biodegradability," <i>J. of Neurosurgery</i> 92(2):315-325 (2000).				
AW	Heckman, J.D., et al., "Bone Morphogenetic Protein But Not Transforming Growth Factor- $\beta$ Enhances Bone Formation in Canine Diaphyseal Nonunions Implanted with a Biodegradable Composite Polymer," <i>J. of Bone &amp; Joint Surgery</i> 81(12): 1717-1729 (1999).				
AX	Radomsky, M.L, et al., "Novel Formulation of Fibroblast Growth Factor-2 in a Hyaluronan Gel Accelerates Fracture Healing in Nonhuman Primates," <i>J. of Orthopaedic Res.</i> 17(4):607-614 (1999).				
AY	Boyan, B.D., et al., "Potential of Porous Poly-D,L-Lactide-Co-Glycolide Particles as a Carrier for Recombinant Human Bone Morphogenetic Protein-2 During Osteoinduction In Vivo," <i>J. of Bio. Materials Res.</i> 46(1):51-59 (1999).				
AZ	Kato, T., et al., "Single Local Injection of Recombinant Fibroblast Growth Factor-2 Stimulates Healing of Segmental Bone Defects in Rabbits," <i>J. of Orthopaedic Res.</i> 16(6):654-659 (1998).				
EXAMINER			DATE CONSIDERED		



paper no 3

APPLICATION NO.  
09/909,122

APPLICANT  
Darrell H. Carney, et al.

FILING DATE  
July 19, 2001

~~GROUP~~  
~~1645~~

U.S. PATENT DOCUMENTS

INER  
INI-  
TIAL

DOCUMENT NUMBER

DATE \_\_\_\_\_

NAME

CLASS

SUB-  
CLASS

FILING DATE  
IF  
APPROPRIATE

IECH CENTER 1600/2900

FEB 04 2002

RECEIVED

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER

DATE \_\_\_\_\_

COUNTRY

CLASS

SUB-  
CLASS

TRANSLATION  
YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AT3

• Yang et al., "Accelerated Repair of Segmental Defects by a Synthetic Thrombin Peptide," Handout that was distributed at the Texas Mineralized Tissue Society Meeting, September, 1999.

EXAMINER

DATE CONSIDERED

Paper NO: 4

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.  
3033.1002-001

APPLICATION NO.  
09/909,122

SECOND SUPPLEMENTAL INFORMATION  
DISCLOSURE CITATION  
IN AN APPLICATION

July 22, 2001

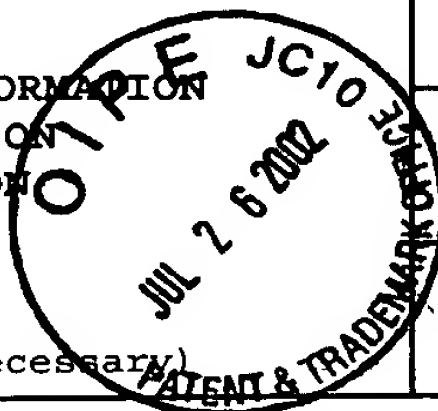
(Use several sheets if necessary)

APPLICANT  
Darrell H. Carney, et al.

FILING DATE  
July 19, 2001

GROUP  
1645

1647



U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
RM	AC	4,563,489	01/07/86	Urist	524	21	
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
JUL 31 2002  
TECH CENTER 1600/2900

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
RM	AL	WO 88/03151	05/MAY/88	PCT			
	AM						
	AN						
	AO						
	AP						
	AQ						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	
	AS	
	AT	

EXAMINER

DATE CONSIDERED

6/25/03

paper NO. 5

PTO-1449 REPRODUCED  <b>3rd SUPPLEMENTAL INFORMATION DISCLOSURE IN AN APPLICATION</b>  November 5, 2002  (Use several sheets if necessary)	ATTORNEY DOCKET NO. 3033.1002-001	APPLICATION NO. 09/909,122
APPLICANT Darrell H. Carney, et al.		<b>RECEIVED</b>  NOV 13 2002
FILING DATE July 19, 2001		GROUP 1647

**U.S. PATENT DOCUMENTS**

**TECH CENTER 1600/2900**

EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
AD	5,876,452	03/02/99	Athanasidou et al.	623	16	X
AE	6,001,352	12/14/99	Boyan et al.	424	93.7	

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES      NO
AM ✓ WO 99/08728	25-FEB-99	PCT			

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

AU3 ✓	Stiernberg, J., et al., "Acceleration of full-thickness wound healing in normal rats by the synthetic thrombin peptide TP508," Wound Rep Reg, 8(3):204-215, (2000).
AV3 ✓	Wang, H., et al., "Effect of TP508, A thrombin-related peptide, on Cbfa1, VEGF, and collagen type II expression during femoral fracture healing," Molecular Biology of the Cell, 2:243a (2000).

EXAMINER <i>R. M. Oelby</i>	DATE CONSIDERED <i>6/25/03</i>
-----------------------------	--------------------------------

*paper 10, 17*